ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Sefect 1 of 5

Substitute Form PTO-1449 (Modified)	(Modified) Patent and Trademark Office		Application No. 10/551,504
Information Disclosure Statement by Applicant		Applicant Hiroyuki Tsunoda et al.	
MAY 2 3 2007 Use several sheets (37 CFR §1.98(4))	s if necessary)	Filing Date May 12, 2006	Group Art Unit 1644

MADEMAN	U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate	
******************************	<u></u>	5,877,291	04/20/1995	Mezes et al.				
10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0,183,744	02/06/2001	Goldenberg				
	×4.2	6,323,000	11/07/2001	Briggs et el.				
	A4*****	6,342,220	01/29/2002	Adams et al.				
	200000pA ₂ Second	6,368,596	04/89/2002	- Chetic et al:				
	Að	6,083,137	01/27/2004	Briggs et al.				
	A.7	2001/0006796	07/05/2001	Briggsetal				
	A8	2002/0193571	12/19/2002	Carter et al.				
	A-9	2003/0073161	04/17/2003	Briggs et al.				
	A1 0	2003/0148409	08/07/2003	Rossi et al.				
	Att	2004/0091475	05/13/2004	Tsuchiya et al:				
	~A12	2004/0242847	12/02/2004	Fukushima et al.				
	A 13	2086/0189794	08/24/2006	Tsuchiya et al.				
	A14	2006/0275301	12/07/2006	Ozalci ot al.				
	A15	2007/0003556	01/07/2007	Tsuchiya et al.		*****		

	Foreig	n Patent Docu	ments or Pu	blished Foreign	Patent	Applicati	ons	
Examiner	Desig.	Document	Publication	Country or			Transla	ation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
	Att	JP 7-503622	04/20/1993	Japan			See A1	
		JP-10-505231	05/26/1998	Japan	000000000000000000000000000000000000000	0000000000	See A22	
	A18	JP 2001-506135	05/15/2001	Japan			See A7	
	AT9	JP 2001-513999	09/11/2001	Japan			See A4	
	A20	JP 2001-518930	10/16/2001	Japan			See A26	
	A2-4	᠁ᢖᠯ ᢇ <u>ᢓᠪᢒᢓᢘ5</u> ᡇᢩᡈᢩᡮᡏᢃ᠁	12/24/2002	Japan	000000000000000000000000000000000000000	000000000000000000000000000000000000000	See A29	
	A-2-2	₩ ₩ ₩₩	02/22/1996	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	00000000000	-		
	A 23	WO 97/31108	08/28/1997		300000000000		English abstract	
	A24	WO 98/28331	07/02/1998	WIPO				

Examiner Signature /Shulamith Shafer/	Date Considered 12/17/2009
EXAMINER: Initials citation considered. Draw line through citation if no	ot in conformance and not considered. Include copy of this form with
next communication to applicant.	

Sheet <u>2</u> of <u>5</u>

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14875-153US1	Application No. 10/551,504	
Information Disclo		Applicant Hiroyuki Tsunoda et al.		
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date May 12, 2006	Group Art Unit 1644	

Examiner	Desig.	Document	Publication	blished Foreigr Country or	1		Transl	ation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
0000000	A25	WO 98/41641	09/24/1998	WIPO				
	<u>A-2-6</u>	WO 98/42378	10/01/1998	WIPO				
	AZ Posso	WO 99/02367	01/21/1999	control to the construction of the constructio				
	A28	WO 99/10494	03/04/1999	WIPO				
	A29	WO 00/67795	11/16/2000	WIPO				
	A30	WO 01/64713	09/07/2001	WIPO				-
	A31	WO 01/66737	09/13/2001	WIPO				
	A32	WO 01/74388	10/11/2001	WIPO				
	A33	WO 01/79494	10/25/2001	WIPO			English abstract	
···	A34	WO 01/97858	12/27/2001	WIPO				
	A35	WO 02/04021	01/17/2002	WIPO				
	A36	WO 02/22212	03/21/2002	WIPO				
	A37	WO 02/33072	04/25/2002	WIPO			See A9	
	A _L 3.8	WO 02/33073	04/25/2002	WIPO			-See-A-1-1	boood
	Аз.	WO 03/033654	04/24/2003	WIPO	000000000000000000000000000000000000000	000000000000000000000000000000000000000		
	A40	WO 03/104425	12/18/2003	WIPO				
	A#1	WO 2004/033499	04/22/2004	annifely friffic freedomment and a second			х	
	A42	WO 2004/081048	09/23/2004	WIPO		xxxxxxxxxxxx	Х	
	A43	WO 2084/087763	10/14/2084				Х	

	Other Documents (include Author, Title, Date, and Place of Publication)					
Examiner	Desig.					
Initial	ID	Document				
	A44	Ballmaier et al. "c-mnl mutations are the cause of congenital amegakaryocytic thrombocytonenia," Blood, 97:139-146 (2001)				
	A45	Brinkmann et al., "FT 1720: targeting O-protein-coupled receptors for sphingosine 1-phosphate in transplantation and autoimmunity," Curr. Opin. Immunol., 14:569-575 (2002)				
	A46 💂	Bruenke et al., "A recombinant bispecific single-chain Fv antibody against HLA class II and FcγRIII (CD16) triggers effective lysis of lymphoma cells," Dr. J. Huematol., 125.167-179 (2004)				
	A47	Clark. "CD22, a B Cell-Specific Receptor, Mediates Adhesion and Signal Transduction." J. Immunol., 150:4715-4718 (1993)				

Examiner Signature /Shulamith Shafer/	Date Considered 12/17/2009
EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant.	ot in conformance and not considered. Include copy of this form with

Substitute Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office		Attomey's Docket No. 14875-153US1	Application No. 10/551,504	
	closure Statement plicant	Applicant Hiroyuki Tsunoda et al.		
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date May 12, 2006	Group Art Unit 1644	

	Other D	ocuments (include Author, Title, Date, and Place of Publication)
Examiner	Desig.	
Initial	ID	Document
	100000000000000000000000000000000000000	Co et al. "A Humanized Antibody Specific for the Platelet Integrin gpIIb/IIIa." J. Immunol.
	**************************************	152:2968-2976 (1994)
	A49 🔜	Daniel et al., "Induction of Apoptosis in Human Lymphocytes by Human Anti-HLA Class I
	A49 m	Antibodies," Iransplantation, 75:1380-1386 (2003)
		De Felice et al., "Differential regulatory role of monomorphic and polymorphic determinants of
	A5₩	histocompatibility leukocyte antigen class I antigens in monoclonal antibody OKT3 induced T cell
		proliferation," J. Immunol., 139:2683-2689 (1987)
		DeNardo et al., "Anti-HLA-DR/anti-DOTA Diabody Construction in a Modular Gene Design
	A51	Platform: Bispecific Antibodies for Pretargeted Radioimmunotherapy," Cancer Biother.
		Radiopharm., 16:525-535 (2001)
	4.50	Deng et al., "An Agonist Murine Monoclonal Antibody to the Human c-Mpl Receptor Stimulates
	A:592	Megakaryocytopoiesis," Blood, 92:1981-1988 (1998)
	4.52	Ebert et al., "Expression of Metallothionein II in Intestinal Metaplasia, Dysplasia, and Gastric
	A53	Cancer," Cancer Res., 60:1995-2001 (2000)
	151	Elliott et al., "Activation of the Erythropoietin (EPO) Receptor by Bivalent Anti-EPO Receptor
	A.54	Antibodies," J. Biol. Chem., 271:24691-24697 (1996)
	155	Fayen et al., "Negative signaling by anti-HLA class I antibodies is dependent upon two triggering
	A55	events, Int. Immunot., 10:1347-1338 (1998)
	A 5 Comm	Funaro et al. "Monoclonal antihodies and therapy of human cancers." Biotechnol. Adv. 18:385-401
	A56****	(2000)
	A57	Genestier et al., "Antibodies to HLA Class 1 \(\alpha \) Domain Trigger Apoptosis of CD40-Activated
	A3/	Human B Lymphocytes, Blood, 90:726-735 (1997)
	A58***	Genestier et al. "Caspase-dependent Ceramide Production in Fas- and HLA Class I-mediated
	AJo	Peripheral T Cell Apoptosis," J. Biol. Chem., 273:5060-5066 (1998)
	A59	Genestier et al., "Fas-Independent Apoptosis of Activated T Cells Induced by Antibodies to the
	A.J.Shoon	HLA Class I αl Domain," <i>Blood</i> , 90:3629-3639 (1997)
	**************************************	Genestier et al., "T cell sensitivity to HLA class I-mediated apoptosis is dependent on interleukin-2
	Au	and interleukin-4," Eur. J. Immunol., 27:495-499 (1997)
		Ghetie et al., "Homodimerization of tumor-reactive monoclonal antibodies markedly increases their
	Artichum	ability to induce growth arrest or apoptosis of tumor cells," Proc. Natl. Acad. Sci. USA,
		94:7509-7514 (1997)
	2000000000	Goel et al., "99mTc. Labeled Divalent and Tetravalent CC40 Single-Chain Ev's: Novel Imaging
	A62	Agents for Rapid In Vivo Localization of Human Colon Carcinoma," J. Nucl. Med., 42:1519-1527
		(2001)
		Goel et al., "Genetically Engineered Tetravalent Single-Chain Fv of the Pancarcinoma Monoclonal
	A.	Antibody CC49: Improved Biodistribution and Potential for Thorapoutic Application," Cancer Res.
		60:6964-6971 (2000)
	A64****	Goto et al. "A Novel Membrane Antigen Selectively Expressed on Terminally Differentiated
	A04	Human B Cells," Blood, 84:1922-1930 (1994)
	A ð5	Holliver et al., "Diabodies'; Small bivalent and bispecific antibody fragments," Proc. Natl. Acad.
	AUJ	Sci. USA, 90:6444-6448 (1993)

Examiner Signature	Date Considered
/Shulamith Shafer/	12/17/2009
EXAMINER: Initials citation considered. Draw line through citation if no	of this form with

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attomey's Docket No. 14875-153US1	Application No. 10/551,504	
Information Disclosure Statement by Applicant		Applicant Hiroyuki Tsunoda et al.		
(Use several st	eets if necessary)	Filing Date May 12, 2006	Group Art Unit 1644	

		ocuments (include Author, Title, Date, and Place of Publication)
Examiner	Desig.	December
Initial	ID	Document 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1	Hu et al., "Minibody: A Novel Engineered Anti-Carcinoembryonic Antigen Antibody Fragment
	A66****	(Single Chain Fv Ch3) Which Exhibits Rapid, High-Level Targeting of Xenografts," Cancer Res.,
	ļ	56:3055-3061 (1996)
	A67	Hudson et al., "High avidity scFv multimers; diabodies and triabodies," J. Immunol. Methods,
		231:177-189 (1999)
	A68****	Kikuchi et al., "A bivalent single-chain Fv fragment against CD47 induces apoptosis for leukemic
	ļ	cells," Biochem. Biophys. Res. Commun., 315:912-918 (2004)
	V C0000000	Kimura et al., "2D7 diabody bound to the α2 domain of HLA class I efficiently induces caspase-
	A69	independent cell death against malignant and activated lymphoid cells," <i>Biochem. Biophys. Res.</i>
		Commun., 325:1201-1209 (2004) Kipriyanov et al., "Effect of Domain Order on the Activity of Becterially Produced Bispecific
	A70	
<u>-</u>		Single-chain Fv Antibodies," J. Mol. Biol., 330:99-111 (2003)
	A71	Kortt et al. "Dimeric and trimeric antihodies: high avidity scFvs for cancer targeting." <i>Biomol. Eng.</i> , 18:95-108 (2001)
		4
	A 72	Kreitman et al., "Cytotoxic Activity of Disulfide-stabilized Recombinant Immunotoxin RFB4(dsFv)-PE38 (BL22) toward Fresh Malignant Cells from Patients with B-Cell Leukemias,"
	A72	
		Clin. Cancer Res., 6:1476-1487 (2000)
	A73	Kulkarni et al., "Construction of a Single-Chain Antibody Derived From 5H7, A Monoclonal
		Antibody Specific for a Death Signaling Domain of Human Class I Major Histocompatibility
	<u> </u>	Complex," Transplant. Proc., 30:1081 (1998)
	A74 **	Kulkarni et al "Programmed Cell Death Signaling Via Cell-Surface Expression of a Single-Chain
	717	Antibody Transgene, Transplantation, 69:1209-1217 (2000)
	į	Lebrun et al., "Antibodies to the Extracellular Receptor Domain Restore the Hormone-insensitive
	A75	Kinase and Conformation of the Mutant Insulin Receptor Valine 382," I. Riol. Chem.,
		268:11272-11277 (1993)
	A76	Li et al., "The Epitope Specificity and Tissue Reactivity of Four Marine Monoclonal Anti-CD22
		Antibodies," Cell. Immunol., 118:85-99 (1989)
	!	Matsuoka et al., "A Monoclonal Antibody to the 2 Domain of Murine Major Histocompatibility
	A77 '	Complex Class I that Specifically Kills Activated Lymphocytes and Blocks Liver Damage in the
		Concanavalin A Hepatitis Model," J. Exp. Med., 198:497-503 (2003)
	۸70	Matsuoka et al., "A Novel Type of Cell Death of Lymphocytes Induced by a Monoclonal Antibody
	A78	without Participation of Complement," J. Exp. Med., 181;2007-2015 (1995)
	A79 ·····	 Wishii, "ED22 antibody therapy," Carrem Therapy, 20:47-50 (2001) (English translation included)
	A80 *	Obtomo et al "Molecular Cloning and Characterization of a Surface Antigen Preferentially
		Overexpressed on Multiple Myeloma Cells," Biochem. Biophys. Res. Commun., 258:583-591 (1999)
		Oka, "Development of Novel Immunotoxin Using Recombinant Alpha-Sarcin and Its Application
	A O 100000	
	A81****	Treatment of Hematopoietic Tumor, Sankyo Seimei Kagaku Kenkyu Shinko Zaidan Kenkyu
		Hokokushu, 12:46-56 (1998) (concise English explanation included)
	A82	Ono et al. "The humanized anti-HM1.24 antibody effectively kills multiple myeloma cells by
		human effector cell-mediated cyto-toxicity," Mol. Immunol., 36:387-395 (1999)
	A83	Orna et al., "Armovel the capeutic approach for thrombocy toponia by minibody agonist of the
		thrombopoietin receptor," Blood, 105:562-566 (2005)

Examiner Signature /Shulamith Shafer/	Date Considered 12/17/2009				
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with					

next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.S./

Sheet <u>5</u> of <u>5</u>

Substitute Form PTO-1449 (Modified) U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 14875-153US1	Application No. 10/551,504
	closure Statement pplicant	Applicant Hiroyuki Tsunoda et al.	
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date May 12, 2006	Group Art Unit 1644

Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner	Desig.			
Initial	ID	Document		
00000000	A84	Ozaki et al., A Recombinant HLA Class I-Specific Single Chain Fv Diabody Induces Cell Death in		
	2104	Human Lymphoid Malignancies," Blood, 102:933a, Abstract No. 3474 (2003)		
	A85	Ozaki et al., "Humanized Anti HM1.24 Antibody Mediates Mysloma Cell Cytotoxicity That Is		
	Aos	Enhanced by Cytokine Stimulation of Effector Cells," <i>Blood</i> , 93:3922-3930 (1999)		
		Ozaki et al. "Immunotherany of Multiple Myeloma With a Monoclonal Antibody Directed Against		
	A80	a Plasma Cell-Specific Antigen, HM1.24," Blood, 90:3179-3186 (1997)		
		Pettersen et al., "The TCR-Binding Region of the HLA Class I & Domain Signals Rapid Fas-		
i	A87	Independent Cell Death: A Direct Pathway for T Cell-Mediated Killing of Target Cells?" J.		
		Immunol., 160:4343-4352 (1998)		
	20000000	Piétri Rounel et al., "The biochemical effect of the naturally occurring Trp64 Ang mutation on		
	A88	human β3-adrenoceptor activity," Eur. J. Biochem., 247:1174-1179 (1997)		
		Plückthun et al. "New protein engineering approaches to multivalent and hispecific antibody		
	A89	fragments," Immunotechnology, 3:83-105 (1997)		
	A90	Rossi et al., "Development of New Multivalent-bispecific Agents for Pretargeting Tumor		
		Localization and Therapy," Clin. Cancer Res., 9.3886s-3896s (2003)		
	A91	Sato et al. "CD22 Is Both a Positive and Negative Regulator of R Lymphocyte Antigen Receptor		
		Signal Transduction: Altered Signaling in CD22-Deficient Mice," Immunity, 5:551-562 (1996)		
	20	Scheurle et al., "Cancer Gene Discovery Using Digital Differential Display," Cancer Res.,		
		60:4037-4043 (2000)		
		Smith et al., "Inhibition of T Cell Activation by a Monoclonal Antibody Reactive Against the o3		
		Domain of Human MHC Class I Molecules," J. Immunol., 153:1054-1067 (1994)		
		Tahtis et al., "Biodistribution Properties of "Indium-labeled C-Functionalized trans-Cyclohexyl		
	A94	Diethyleneuriaminepentaacetic Acid Humanized 35193 Diabody and F(ab)2 Constructs in a Breast		
		Carcinoma Xenograft Model," Clin. Cancer Res., 7:1061-1072 (2001)		
		Tedder et al., "CD22, a B Lymphocyte-Specific Adhesion Molecule That Regulates Antigen		
	A95	Receptor Signaling," Annu. Rev. Immunol., 15:481-504 (1997)		
		Thilenius et al., "Agonist antibody and Fas ligand mediate different sensitivity to death in the		
	A96****	signaling pathways of Fas and cytoplasmic mutants," Eur. J. Immunol., 27:1108-1114 (1997)		
,		Woodle et al., "Anti-Human Class I of Domain-Specific Monoclonal Antibody Induces		
·	A97	Programmed Cell Death in Murine Cells Expressing Human Class I MHC Transgenes," Transplant.		
	AJI			
		Proc., 30:1059-1060 (1998)		
	A98	Woodle et al., "Anti-Human Class I MHC Antibodies Induce Apoptosis by a Pathway That Is		
		Distinct from the Fas Antigen-Mediated Pathway, J. Immunol., 138.2136-2164 (1997)		
	A99	Woodle et al., "Class I MHC Mediates Programmed Cell Death in Human Lymphoid Cells,"		
		Transplantation, 64:140-146 (1997)		
	A100	Wu et al., "Tumor localization of anti-CEA single-chain Fvs: improved targeting by non-covalent		
	40000000000000000	dimers," Immunotechnology, 2:21-36 (1996)		
	A101	Xiong et al., "Efficient inhibition of human B-cell lymphoma xenografts with an anti-CD20 × anti-		
	. ≠ 3bobobdodooooo	CD3 bispecific diabody," Cancer Lett., 177:29-39 (2002)		
		Xu et al., "Insight into hepatocellular carcinogenesis at transcriptome level by comparing gene		
j	A102	expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver,"		
}		Proc. Natl. Acad. Sci. USA, 98:15089-15094 (2001)		

Examiner Signature /Shulamith Shafer/	Date Considered 12/17/2009		
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with			

next communication to applicant.